Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- 1. (Cancelled)
- 2. (Currently Amended) The method of claim 1, further comprising: A method in a data processing system for providing valid translation entries in a translation control entry table for all supported direct memory addresses, comprising:

reserving a page in system memory to form a reserved page;

writing the reserved page;

selecting a region in the system memory for the translation control entry table;

initializing all entries in the translation control entry table, wherein all entries are initialized to be valid and contain an address of the reserved page; and

updating an entry in the translation control entry table, wherein a physical memory page replaces the reserved page when the entry is used by an operating system's device driver.

- 3. (Original) The method of claim 2, further comprising:
- restoring the entry in the translation control entry table with the reserved page when the entry is no longer used by an operating system.
- 4. (Currently Amended) The method of claim 2, further comprising:

determining whether a direct memory address translation corresponding to the entry has been cached in a translation lookaside buffer; and

responsive to a determination that <u>the such a</u> direct memory address translation exists, clearing the direct memory address translation from the translation lookaside buffer.

- 5. (Currently Amended) The method of claim $\underline{2}$, [[1,]] wherein the page in the system memory is inaccessible to an operating system running on the data processing system.
- 6. (Currently Amended) The method of claim 2, [[1,]] wherein writing the reserved page includes setting all bytes within the reserved page to 0xFF.

- 7. (Currently Amended) The method of claim 2, [[1,]] wherein initializing all entries to be valid includes setting all valid bits to "1".
- 8. (Cancelled)
- 9. (Currently Amended) The method of claim 2, [[1,]] wherein the translation control entry table comprises a 2MB Translation Control Entry table having 512K 4-byte entries.
- 10. (Cancelled)
- 11. (Currently Amended) The data processing system of claim 10, further comprising: A data processing system for providing valid translation entries in a translation control entry table for all supported direct memory addresses, comprising:

reserving means for reserving a page in system memory to form a reserved page; writing means for writing the reserved page;

selecting means for selecting a region in the system memory for the translation control entry table;

initializing means for initializing all entries in the translation control entry table, wherein all entries are initialized to be valid and contain an address of the reserved page; and

updating means for updating an entry in the translation control entry table, wherein a physical memory page replaces the reserved page when the entry is used by an operating system's device driver.

- 12. (Original) The data processing system of claim 11, further comprising:
 restoring means for restoring the entry in the translation control entry table with the reserved page
 when the entry is no longer used by an operating system.
- 13. (Currently Amended) The data processing system of claim 11, further comprising:

 determining means for determining whether a direct memory address translation corresponding to
 the entry has been cached in a translation lookaside buffer; and

clearing means for clearing the direct memory address translation from the translation lookaside buffer in response to a determination that the such a direct memory address translation exists.

14. (Currently Amended) The data processing system of claim 11, [[10,]] wherein the reserved page is inaccessible to an operating system running on the data processing system.

- 15. (Currently Amended) The data processing system of claim 11, [[10,]] wherein writing the reserved page includes setting all bytes within the reserved page to 0xFF.
- 16. (Currently Amended) The data processing system of claim 11, [[10,]] wherein initializing all entries to be valid includes setting all valid bits to "1".
- 17. (Cancelled)
- 18. (Currently Amended) The data processing system of claim 11, [[10,]] wherein the translation control entry table comprises a 2MB Translation Control Entry table having 512K 4-byte entries.
- 19. (Cancelled)
- 20. (Currently Amended) The computer program product of claim 19, further comprising: A computer program product in a recordable-type medium for providing valid translation entries in a translation control entry table for all supported direct memory addresses, comprising:

first instructions for reserving a page in system memory to form a reserved page; second instructions for writing the reserved page;

third instructions for selecting a region in the system memory for the translation control entry table;

fourth instructions for initializing all entries in the translation control entry table, wherein all entries are initialized to be valid and contain an address of the reserved page; and

fifth instructions for updating an entry in the translation control entry table, wherein a physical memory page replaces the reserved page when the entry is used by an operating system's device driver.

- 21. (Original) The computer program product of claim 20, further comprising: sixth instructions for restoring the entry in the translation control entry table with the reserved page when the entry is no longer used by an operating system.
- 22. (Currently Amended) The computer program product of claim 20, further comprising: sixth instructions for determining whether a direct memory address translation corresponding to the entry has been cached in a translation lookaside buffer; and

seventh instructions for clearing the direct memory address translation from the translation lookaside buffer in response to a determination that the such a direct memory address translation exists.

- 23. (Currently Amended) The computer program product of claim <u>20</u>, [[19,]] wherein the reserved page is inaccessible to an operating system running on [[the]] <u>a</u> data processing system.
- 24. (Currently Amended) The computer program product of claim 20, [[19,]] wherein writing the reserved page includes setting all bytes within the reserved page to 0xFF.
- 25. (Currently Amended) The computer program product of claim <u>20</u>, [[19,]] wherein initializing all entries to be valid includes setting all valid bits to "1".
- 26. (Cancelled)
- 27. (Currently Amended) The computer program product of claim 20, [[19,]] wherein the translation control entry table comprises a 2MB Translation Control Entry table having 512K 4-byte entries.
- 28. (Currently Amended) The method of claim 2, [[1,]] wherein the reserved page is utilized for DMA address translation.
- 29. (Currently Amended) The data processing system of claim 11, [[10,]] wherein the reserved page is utilized for DMA address translation.
- 30. (Currently Amended) The computer program product of claim <u>20</u>, [[19,]] wherein the reserved page is utilized for DMA address translation.